

SET-UP INSTRUCTIONS & CHECKLIST for SERIES 15 REAR ENGINE RIDERS

These instructions cover dealer set-up of the following models of the SNAPPER Rear Engine Riders.

250815B 280915BE

301215BE

331415KVE

250815BE 300915BE

331415BVE

421615BVE 421615TVE

Tools required for set-up are: HAMMER, PLIERS, 7/16" and 1/2" WRENCH or SOCKET.

A package of battery acid (electrolyte), purchased separately, is required for electric start models.

SNAPPER Series 15 Rear Engine Riding Mowers are shipped with steering components, seat & fuel tank detached to provide the lowest possible profile for shipment.

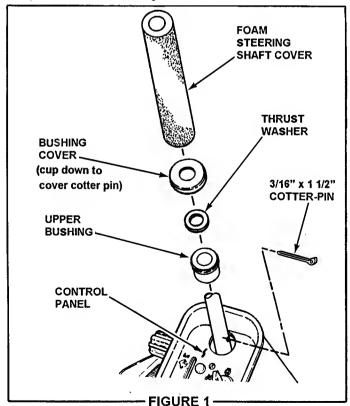
After uncrating, inspect the machine for damage, then proceed as follows to assemble and prepare the unit.

Open parts box and hardware bag and identify components shown on pages 4 & 5 (fig. 13 & 14).Note that not all parts in each bag are used on any one rider.

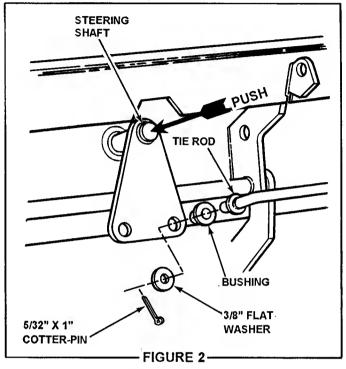
A. STEERING COMPONENTS

1. Steering Shaft

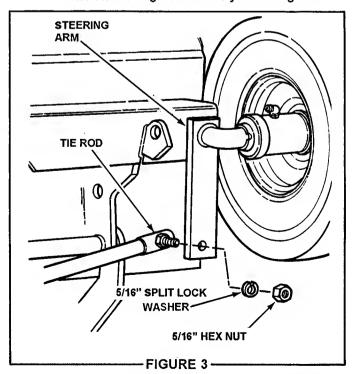
- (a) Carefully stand Rider on rear bumper.
- (b) Push steering shaft into place (see figure 2).
- (c) Remove/discard vinyl cap from steering shaft end.
- (d) Tap upper bushing so that it contacts control panel.
- (e) Place thrust washer on top of bushing.
- (f) Install 3/16" x 1-1/2" cotter-pin from parts bag into steering shaft above thrust washer.
- (g) Install bushing cover over cotter-pin, thrust washer and bushing.
- (h) Slide foam steering shaft cover over steering shaft. See Figure 1.



- 2. Installing Tie Rods Narrow Front Frame (28" & smaller deck)
 - (a) Install bushings onto tie rods.
 - (b) Install tie rods into steering shaft. Secure with 3/8" flat washers and 5/32" x 1" cotterpins. See Figure 2.



- 3. Installing Tie Rods Wide Front Frame (30" & larger deck)
 - (a) Install tie rods, 5/16" lock washers and 5/16"-24 hex nuts. Tighten securely. See Figure 3.

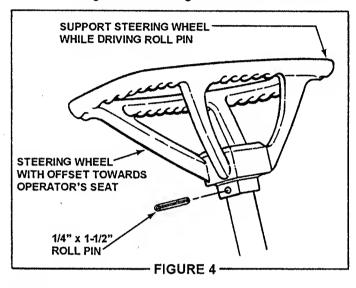


4. Installing Steering Wheel

(a) Slide steering wheel on steering shaft. Normally, the offset of the steering wheel should be towards operator's seat.

NOTE: For more operator room, the steering wheel offset can be turned towards front of the Rear Engine Rider. The "SNAPPER" logo in the center of steering wheel can be snapped out and turned also.

(b) Support steering wheel and drive the 1/4" x 1-1/2" roll pin into steering wheel and steering shaft. See Figure 4.



B. MOWING DECK

1. Cutting Blade

- (a) Check the torque of mowing blade mounting bolt. (35 to 55 ft. lbs. recommended)
- (b) Check the torque of air lift mounting bolts, equipped on 28" and 33" decks.(135 to 155 in. lbs. recommended)
- (c) Check blade straightness per operators manual.

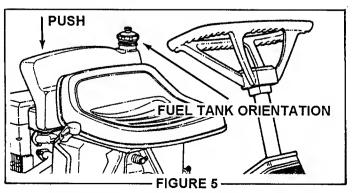
C. LUBRICATION

- Perform normal lubrication of the Rear Engine Rider. Check differential and chain case for proper lubricant levels. <u>See Operator's manual.</u>
- 2. After completing lubrication, carefully lower Rear Engine Rider to floor to continue set-up.

D. FUEL SYSTEM

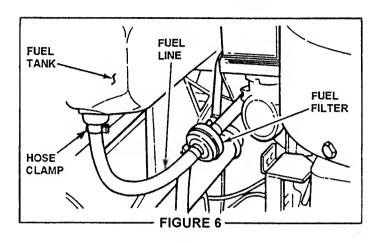
1. Fuel Tank

Place fuel tank in bracket behind seat bracket and push tank down until it snaps into position. See figure 5.



2. Fuel Line

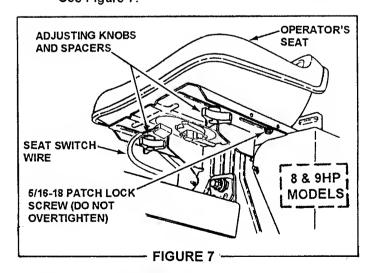
Slide fuel line onto fuel tank hose barb and move hose clamp above end of the fuel tank hose barb (approximately 1/8" from end of hose). The fuel filter has been installed by the engine manufacturer. See Figure 6.



E. OPERATOR'S SEAT

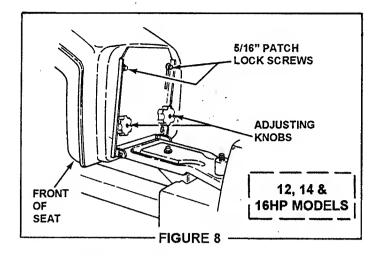
[8 and 9HP Models]

- 1. Lay forward edge of seat onto seat pan.
- 2. Connect seat switch wiring harness to male tabs of seat switch (under seat). See Figure 7.
- 3. Position operator's seat onto seat bracket.
- 4. Install two 5/16-18 hex head flange patch lock screws into rear holes of seat.
- 5 Install two spacers onto the two adjusting knobs.
- 6. Install adjusting knobs through seat bracket and into the two front holes in operator's seat.
- 7. Adjust seat to desired position. Partially tighten rear screws, allowing seat to slide front to back. Tighten adjusting knobs to secure seat in position See Figure 7.



[12, 14 and 16HP Models]

1. Fold the hinged seat plate forward and follow steps 2 through 7 (above) for 8 & 9HP models. See Figure 8.

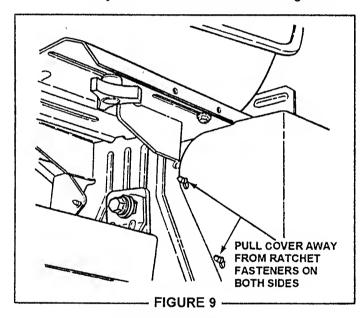


F. BATTERY

The battery for electric start models is shipped dry. It should be activated and charged according to the instructions enclosed with the battery. (See line 3 below for charging battery).

1. BATTERY REMOVAL

(a) Remove battery cover by pulling each side away from ratchet fasteners. See Figure 9.



(b) Remove battery from battery box

2. BATTERY ACTIVATION

<u>NOTE</u>: For safety reasons the electrolyte (acid) for the battery is not supplied with the rider. Therefore the electrolyte must be purchased separately from your local dealer or retailer.

- (a) Place battery in a well ventilated area on a level surface.
- (b) Remove battery cell caps. Fill cells as required with electrolyte to between minimum and maximum fill line as viewed from outside battery case. Filling battery with electrolyte will bring the battery to 80% charged state.

NOTE: 3/16" above cell plates is the recommended level. However, do not try to measure this dimension. Never place anything in battery other than specified electrolyte.

CAUTION: DO NOT OVERFILL!

WARNING

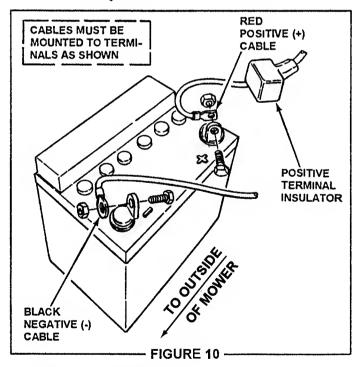
THE ELECTROLYTE (ACID) PRODUCES A HIGHLY EXPLOSIVE GAS. KEEP ALL SPARKS, FLAME AND FIRE AWAY FROM AREA WHEN CHARGING BATTERY OR WHEN HANDLING ELECTROLYTE OR BATTERY. ELECTROLYTE (ACID) IS A HIGHLY CORROSIVE LIQUID. WEAR EYE PROTECTION. IN CASE OF EYE OR SKIN CONTACT WITH ELECTROLYTE (ACID), WASH ALL AFFECTED AREAS OF THE BODY IMMEDIATELY.

3. BATTERY CHARGING

- (a) With all cell caps removed, connect an automotive type battery charger to battery treminals; RED to positive (+) and BLACK to negative (-) terminal.
- (b) Slow charge at 2 to 6 amps for 30 minutes.
- (c) After charging, check level of electrolyte, add electrolyte if necessary, and tighten cell caps.

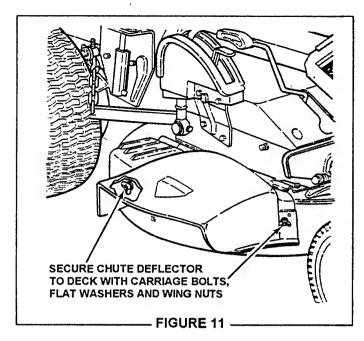
4. BATTERY INSTALLATION

- (a) Slide battery partially into box, with positive end to inside and terminals to rear, to allow for cable installations.
- (b) Battery cables MUST BE SECURED TO BAT-TERY TERMINALS as shown in Figure 10, using the 1/4" screws and lock-nuts from the hardware bag.
- (c) Place the positive (+) terminal insulator over positive terminal and cable. Refer to Figure 10.
- (d Slide battery into battery box and reinstall battery cover.



G. CHUTE DEFLECTOR

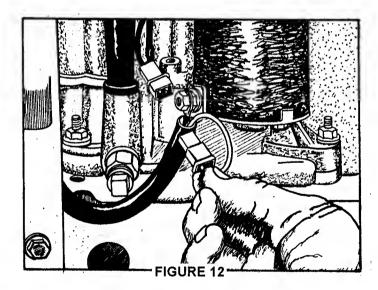
The chute deflector is shipped in the "UP" position. Remove rubber band, lower chute deflector and secure to deck with carriage bolt(s), flat washer(s) and wingnut(s) furnished in the deck. See Figure 11.



I. ELECTRICAL CIRCUIT

The electrical connection at the engine is shipped disconnected to protect the electrical system when the battery is installed and MUST BE THE LAST STEP in preparation.

1. Connect electrical circuit at rear of the engine. See Figure 12.



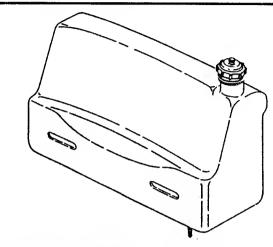
I. ENGINE

Perform engine service, oil and fuel, according to engine manufacturer's recommendations.

J. PRE-SALE CHECK

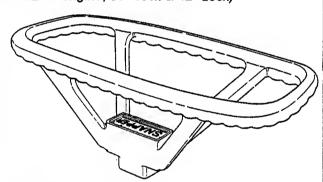
Completely fill out the attached Pre-Sale Checklist BEFORE starting the engine, testing the Rear Engine Rider or delivering to the customer.

The parts box contains the following: gas tank, steering wheel, seat and hardware bag. The <u>particular</u> gas tank, seat and hardware bag depends on the model rear engine rider purchased. Replacement parts should be ordered individually.



5-1905 GAS TANK (used on: 25" deck, 28" deck & 30" deck w/9HP engine)

5-2435 GAS TANK w/GAGE (used on: 30" deck w/12HP engine, 33" deck & 42" deck)

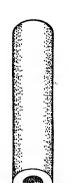


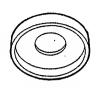
5-1941 STEERING WHEEL



2-8650 SEAT (25", 28" & 30" deck w/12HP engine) **2-2585 SEAT**, **HIGH BACK** (33" & 42" deck)

HARDWARE BAG 6-1401 (Models 250815B, and 250815BE)





1-1024 (2) PIUG

9-1515 3/16 " X 1-1/2 COTTER PIN



1-3321 (2) **BUSHING**



2-3671 COVER

1-3862 ROLL PIN

2-7172 (2)

1/4" SCREW

(NOT USED ON 250815B)

9-1516 (2) 5/32" X 1

COTTER PIN

9-1038 (2) 5/16" X 1/2 SCREW



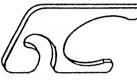
2-3667 FOAM COVER



9-0372 (2) 1/4" LOCKNUT (NOT USED ON 250815B)



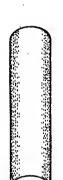
9-1514 (2) 3/8" FLAT WASHER



1-3849 (2) SPACER

2-8395 (4) SPACER, PIVOT (NOT USED ON 280915BE)

HARDWARE BAG 6-1840 (Model 280915BE)







PLUG

9-1515 3/16" X 1-1/2 **COTTER PIN**



1-3321 (2) BUSHING



2-3671 COVER



9-1516 (2) 5/32" X1



5/16" x 1/2 SCREW

KNOB 9-1038 (2)

1-3862 ROLL PIN



2-7172 (2) **COTTER PIN**





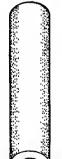
1-3849 (2) **SPACER**

2-3667 FOAM COVER

9-0372 (2) 1/4" LOCKNUT

9-1514 (2). 3/8" FLAT WASHER

HARDWARE BAG 6-1792 (Models 300915BE, 301215BE, 331415BVE, 331415KVE, 421615BVE and 421615TVE)



2-3667 FOAM COVER



1-1024 (2) **PLUG**



3/16" X 1-1/2 COTTER PIN



2-3671 COVER



2-7172 (2)

1/4" SCREW

9-1315 (2) 5/16" SPLIT

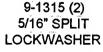


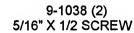


1-3862 ROLL PIN



9-0372 (2) 1/4" LOCKNUT





9-1297 (2) 5/16" NUT



NOTES

6

NOTES

·	
	÷
,	
 •	
	<u> </u>
_	

DEALER PRE-SALE CHECKLIST					
SET-UP CHECKLIST STEERING wheel and steering shaft assemble TIE RODS connected. LUBRICATION of entire unit completed. OPERATOR'S SEAT installed and tightened. FUEL TANK installed and fuel line connected. GRASS DEFLECTOR, MULCH COVER or BABATTERY activated and charged per battery is BATTERY installed. TIRES inflated to proper psi. Front 15 psi, real CUTING BLADE & DECK CHECKS BLADE RETAINING bolts at proper torque val AIR LIFT bolts tight. Torque from 135 to 155 BLADE ALIGNMENT checked for equal tracking BLADE STRAIGHTNESS checked and adjusted DECK CUTTING HEIGHT SETTINGS checked DECK SIDE-TO-SIDE LEVELNESS checked DECK FRONT-TO-REAR LEVELNESS checked DECK CUTTO-REAR LEVELNESS Checked DECK CUTTO-REAR SECORDS DEMONSTRATION & INSTRUCTION PERSONALLY HANDED Operator's Manual a INSTRUCTED owner to read and follow instru DEMONSTRATION & INSTRUCTION PERSONALLY HANDED Operator's Manual a INSTRUCTED owner to read and follow instru DEMONSTRATION & INSTRUCTION AIR CLEANER SERVICE and ENGINE OIL CASSISTED purchaser in completing Product	AGGER BOOT & instructions. In 10 psi. Iue. Torque from in. lbs. Ing and adjusted as required. Id and adjusted as and adjusted as red and adjusted. In all for proper oil speeded. In all for freedom of leaks. Refer to Eleaks. R	Refer to Operator's Manual for Specific Contained in this Cl ASS'Y positioned, set as needed. s needed. equired. f movement. Engine Owner's Manual as needed. equired. sed. Adjust blade brackpressed. Booklet to owner. r's Manual.	ake as required.*		
DEALER'S RECORDS					
Sale Date Model	Se	erial No			
Dealer's Name	Signature				
AddressCity		State	Zip		
MOWER WILL BE USED COMMERCIALLY? YES_	NO				
Purchaser's Name	Signature				
AddressCity		State	Zip		

IMPORTANT: This form is to be detached from booklet and retained by the Dealer for future reference regarding Warranty, proof of purchase, traceability and product recall or service, etc.

